

POWER OF ATTORNEY; STATEMENT UNDER 37 C.F.R. § 3.73

California Institute of Technology ("Assignee"), a university located at 1200 East California Boulevard, Pasadena, California 91125, states that it is the assignee of the entire right, title, and interest in and to the patent applications and/or patents identified in the Appendix ("the Patent Properties"). With respect to each of the Patent Properties, Assignee has specified in the attached Appendix where documentary evidence of a chain of title from the original owner to the Assignee is recorded in the assignment records of the USPTO.

With respect to the Patent Properties, any patents or applications that claim direct or indirect priority to any of the Patent Properties (including, without limitation, continuation applications, divisional applications, continuation-in-part applications, and any original utility applications claiming priority to any provisional applications within the Patent Properties), and any reexaminations, reissues, or other extensions of the Patent Properties, Assignee, pursuant to 37 C.F.R. §§ 1.36 and 3.71, hereby:

revokes all powers of attorney previously given; and

appoints the practitioners associated with the **Customer Number 35690** to act on Assignee's behalf before the United States Patent and Trademark Office.

This appointment is effective only so long as these practitioners remain with the firm associated with the Customer Number listed above.

Assignee has granted a license in and to the Patent Properties to Cellular Elements, LLC. This license provides that Cellular Elements, LLC shall have control of prosecution. This appointment is made by Assignee for the benefit of Cellular Elements, LLC, in conducting prosecution of the Patent Properties, and does not establish either a principal-agent or an attorney-client relationship between Assignee and the appointed practitioners.

Pursuant to 37 C.F.R. § 3.71, Assignee hereby states that prosecution of the Patent Properties is to be conducted to the exclusion of the inventor(s).

The undersigned is a representative authorized to act on behalf of Assignee.

Assignee

California Institute of Technology
1200 East California Boulevard
Pasadena, California 91125

Dated: 7/09/09

By: 

Name: Fred Farina

Title: Asst. Vice President
Office of Technology Transfer
California Institute of Technology

APPENDIX

Patents

Patent Number	Title	Issue Date	Recordation Information from Inventors to Assignee
			Reel/Frame
4,922,507 (5957-65400)	MULTIPLE TRELLIS CODED MODULATION <i>CIT 1929</i>	May 1, 1990	004834 / 0458 <i>CIT 1929</i>
5,023,889 (5957-65600)	TRELLIS CODED MULTILEVEL DPSK SYSTEM WITH DOPPLER CORRECTION FOR MOBILE SATELLITE CHANNELS	June 11, 1991	004934 / 0163 <i>CIT 1980</i>
5,644,592 (5957-65900)	PARALLEL INTERFERENCE CANCELLATION FOR CDMA APPLICATIONS	July 1, 1997	008058 / 0121 <i>CIT 2345</i>
4,933,933 (5957-65300)	TORUS ROUTING CHIP	June 12, 1990	004730 / 0221 <i>CIT 1868</i>
5,105,424 (5957-65700)	INTER-COMPUTER MESSAGE ROUTING SYSTEM WITH EACH COMPUTER HAVING SEPARATE ROUTING AUTOMATA FOR EACH DIMENSION OF THE NETWORK	April 14, 1992	004911 / 0120 <i>CIT 1970</i>
6,023,783 (5957-66000)	HYBRID CONCATENATED CODES AND ITERATIVE DECODING	February 8, 2000	008819 / 0257 <i>CIT 2439</i>
7,333,571 (5957-66300)	REDUCED COMPLEXITY CODING SYSTEM USING ITERATIVE DECODING	February 19, 2008	012925 / 0222 <i>CIT 3447</i>
7,243,294 (5957-66100)	SERIAL TURBO TRELLIS CODED MODULATION USING A SERIALY CONCATENATED CODER	July 10, 2007	011761 / 0133 <i>CIT 3144</i>
7,089,477 (5957-66200)	INTERLEAVED SERIAL CONCATENATION FORMING TURBO-LIKE CODES	August 8, 2006	012646 0001 <i>CIT 3057</i>
7,292,654 (5957-66303)	REDUCED COMPLEXITY CODING SYSTEM USING ITERATIVE DECODING	November 6, 2007	012925/0222 <i>CIT 3447-0</i>
5,170,393 (5957-36100)	ADAPTIVE ROUTING OF MESSAGES IN PARALLEL AND DISTRIBUTED PROCESSOR SYSTEMS	December 8, 1992	005870 / 0780 <i>CIT 1999-1</i>

Applications

Application Number	Title	Filing Date	Recordation Information from Inventors to Assignee Reel/Frame
11/429,083 (5957-66201)	INTERLEAVED SERIAL CONCATENATION FORMING TURBO-LIKE CODES	May 5, 2006	013479/0064 3057-C
11/514,295 (5957-66101)	SERIAL TURBO TRELLIS CODED MODULATION USING A SERIALY CONCATENATED CODER	August 31, 2006	019180 / 0942 CIT 3144-C
11/514,288 (5957-66302)	REDUCED COMPLEXITY CODING SYSTEM USING ITERATIVE DECODING	August 31, 2006	012925/0222 CIT 3447-C -